Salem County

SALEM

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661 South Broad Street

661 South Broad Street Pennsville Township Salem County

BLOCK: 546 **LOT:** 5

CATEGORY: Non-Superfund
State Lead

TYPE OF FACILITY: Gasoline Service Station
OPERATION STATUS: Inactive

PROPERTY SIZE: 0.25 Acre

SURROUNDING LAND USE: Residential/Agricultural

MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Volatile Organic Compounds	Treating
Soil	Petroleum Hydrocarbons	Removed

FUNDING SOURCES	AMOUNT AUTHORIZED
1986 Bond Fund	$145,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Contamination was first detected at this site in 1990, when gasoline vapors were encountered while a sewer line was being installed in front of the property. The sources of the gasoline vapors were determined to be two leaking underground gasoline storage tanks that remained from when the site was a gasoline station. NJDEP excavated and disposed of the tanks and 200 tons of gasoline-contaminated soil in 1995.

Between 1995 and 1997, NJDEP conducted a Remedial Investigation and Remedial Action Selection (RI/RAS) to determine the extent of the contamination at the site and identify cleanup options. The RI/RAS revealed that a significant volume of gasoline-contaminated soil remained at the site. The RI/RAS also revealed that elevated levels of volatile organic compounds were present in the on-site ground water, but the contamination did not extend beyond the boundaries of the property. NJDEP subsequently excavated and disposed of an additional 1145 tons of contaminated soil and backfilled the site with clean material. In October 1999, NJDEP initiated oxygen-enhanced bioremediation to address the contaminated ground water. Under this remedy, NJDEP will periodically add oxygen-releasing pellets to the on-site monitor wells to stimulate the growth of naturally occurring microorganism in the shallow aquifer, which will aid in the natural biodegradation of the volatile organic compounds in the ground water. The oxygen-enhanced bioremediation process is expected to reduce the ground water contamination to levels within New Jersey Drinking Water Standards in approximately five years. NJDEP will sample the ground water at the site on a regular basis to monitor the plume and evaluate the effectiveness of the remedy.